

CLAIM AMENDMENTS

Claim 1 (currently amended): A flashlight comprising:

a) a barrel, the barrel being for mounting batteries such that when the batteries are in the barrel, an array of several batteries are in side by side relationship radially around a central longitudinal axis extending through the barrel, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp,

b) a lens,

c) a cap for the barrel; and

d) a pistol grip handle extending transversely from the barrel.

Claim 2 (currently amended): A flashlight as claimed in claim 1 wherein the handle includes a mounting for a trigger, the trigger including magnetic means being operable to activate the switch through a wall of the barrel, and the switch being contained inside the barrel.

Claim 3 (original): A flashlight as claimed in claim 1 wherein the barrel has a forward end and a rear end, and the handle engages the barrel at a position substantially midway between the forward end and the rear end.

Claim 4 (currently amended): A flashlight as claimed in claim 1 wherein the barrel is substantially partially egg-shaped from the forward end to the rear end, and the forward end being substantially truncated and being for receiving the cap in a sealing relationship with the barrel.

Claim 5 (original): A flashlight as claimed in claim 4 wherein the truncation effectively creates a half-egg shape.

Claim 6 (original): A flashlight as claimed in claim 2 wherein the trigger is mounted in a housing, the housing being removably located in a receptacle, and the housing being capable of being selectively removed from the receptacle.

Claim 7 (original): A flashlight is claimed in claim 6 including locking means on the handle, the locking means being a slidable element mounted in the handle for movement towards and

away from the housing of the trigger, and when moved in a position towards the housing of the trigger acts to lock the trigger in one position and thereby promote containing the housing in a receptacle in the handle and wherein movement of the slidable element from the position engaging the trigger acts to permit the trigger to move between on and off positions.

a1
Claim 8 (original): A flashlight as claimed in claim 2 wherein the trigger is contained in a housing, and the housing is at least partly retained in position in a receptacle in the handle by the cap.

Claim 9 (original): A flashlight as claimed in claim 1 including a gasket between the cap and the barrel, the gasket permitting a watertight seal to be formed between the barrel, the gasket, the cap and a transparent face mounted with the cap.

Claim 10 (original): A flashlight as claimed in claim 1 wherein the lens includes a reflective surface, the reflective surface being substantially parabolic with multiple protrusions arranged on the reflective surface.

Claim 11 (original): A flashlight as claimed in claim 10 wherein the multiple protrusions are substantially hemispherical protrusions arranged around the reflective surface.

Claim 12 (original): A flashlight as claimed in claim 11 wherein the protrusions are arranged in rows from a base of the parabolic reflector towards the edge of the parabolic reflector, there being multiple protrusions in each row.

Claim 13 (original): A flashlight as claimed in claim 12 wherein successive rows are offset relative to protrusions in adjacent rows.

Claim 14 (original): A flashlight as claimed in claim 13 wherein the protrusions substantially adjacent to the base of the parabolic reflector are relatively smaller than the size of the protrusions towards the edge of the parabolic reflector.

Claim 15 (original): A flashlight as claimed in claim 14 wherein the spacing between the protrusions in each row is between about 3° to 10° in a radial axis, the axis being directed through the base of the parabolic reflector.

Claim 16 (original): A flashlight as claimed in claim 15 wherein the spacing of the protrusions is about

6° in a radial direction around the axis.

Claim 17 (original): A flashlight as claimed in claim 12 wherein each row of protrusions is offset from an adjacent row, the offset being radially determined between about 1° and 10°.

Claim 18 (original): A flashlight as claimed in claim 17 wherein the offset is about 3°.

A1
Claim 19 (currently amended): A flashlight as claimed in claim 10 wherein the protrusions are substantially hemispherical formations and the diameter of the substantially hemispherical formations hemispheres at the area towards the edge of the reflector is greater than the diameter of the substantially hemispherical formations hemispheres toward the base of the parabolic reflector.

Claim 20 (currently amended): A flashlight as claimed in claim 19 wherein the diameter of the formation hemispheres toward the edge of the reflector is about 0.04 inches and the diameter toward the base is about 0.02 inches and the formations hemispheres between the base and the edge are incrementally different sizes increasing from the base toward the edge.

Claim 21 (currently amended): A flashlight as claimed in claim 10 wherein there are about 1,260 formations hemispheres-arranged in about 21 rows from the base of the parabolic reflector toward the edge.

Claim 22 (original): A flashlight as claimed in claim 10 wherein the lamp includes a filament, the filament being located substantially at the vertex of the parabolic reflector and wherein the array of protrusions on the reflector surface is adapted to disperse a fraction of light intensity into a relatively conical pattern of light, the dispersion resulting into a relatively larger diameter of light pattern emanating from the lamp.

Claim 23 (original): A flashlight as claimed in claim 10 wherein the size and density of the protrusions on the parabolic surface is~ selected to control the fraction of concentrated ligh

emanating from the lamp and reflected by the parabolic surface and transformed into dispersed light of larger diameter.

Claim 24 (original): A flashlight as claimed in claim 10 wherein the size and density of the protrusions on the reflective surface of the lens are selected thereby to create a substantially consistent light intensity through the area of increased diameter pattern, the increased diameter pattern being outside of the center column of higher intensity light reflected by the parabolic effect of the reflector.

A1

Claim 25 (original): A flashlight as claimed in claim 1 wherein the lens includes a reflective surface, the reflective surface being substantially parabolic, and wherein a texture is applied to the reflective surface of the parabolic lens, the texture acting to blend a column of light normally reflected by a lamp located at the vertex of the parabolic reflector and dispersed patterns of light obtained by reflections from protrusions on the reflective surface, the blending acting to reduce a visual irregularity caused by at least one of an unsymmetrical filament in a lamp, an imperfect filament location relative to a vertex of the parabolic reflector, or imperfections in a shape of the reflector.

Claim 26 (original): A flashlight as claimed in claim 1 including batteries, and wherein the batteries are mounted in a housing, the housing being removable from the barrel when the cap is removed from the barrel.

Claim 27 (original): A flashlight as claimed in claim 26 wherein the housing is a substantially cylindrical element for mounting multiple batteries in an axial relationship around the axis of the housing.

Claim 28 (original): A flashlight as claimed in claim 27 including contacts external to the housing for mounting batteries on an outside wall of the housing.

Claim 29 (original): A flashlight as claimed in claim 28 wherein the outside wall is the base of the housing.

Claim 30 (original): A flashlight as claimed in claim 26 including a closure to the housing, the closure to the housing including means for mounting the lamp.

Claim 31 (original): A flashlight as claimed in claim 26 wherein the closure is mounted to close the housing in a tongue and groove manner, the closure and opening being effected by relative rotation of the closure member on one end of the housing.

Claim 32 (original): A flashlight as claimed in claim 26, including a mounting for a switch and circuit on an outside wall of the housing.
A1

Claim 33 (original): A flashlight as claimed in claim 32 wherein the switch includes a reed switch operable by the trigger on the handle.

Claim 34 (original): A flashlight as claimed in claim 1, including batteries, and wherein the batteries are rechargeable.

Claim 35 (original): A flashlight as claimed in claim 26 wherein the housing includes the electrical components for the batteries, the batteries and whereby the operation of the flashlight by the switch is effected by an element mounted on the flashlight unassociated with the housing.

Claim 36 (original): A flashlight as claimed in claim h, including batteries, and wherein the batteries are located in the barrel in a manner to relatively maximize the battery power and minimize the amount of unused space in the barrel.

Claim 37 (original): A flashlight as claimed in claim 1 wherein the handle and barrel are ergonomically structured to promote a balance in the flashlight thereby to substantially balance the flashlight with eight batteries mounted in the barrel to enable the flashlight to stand on a base of the handle without tipping forward or backward.

Claim 38 (original): A flashlight as claimed in claim 37 wherein the handle is formed of elements cut out from structure forming the handle so as to enhance lightness of the handle while at the same time retaining the structural strength of the handle.

Claim 39 (original): A flashlight as claimed in claim 38 wherein the handle includes two component materials, a relatively more rigid forward material to be gripped by fingers of a user and a relatively less flexible material for location about the base of a hand of a user when the hand of a user surrounds the handle.

Claim 40 (original): A flashlight comprising:

- a) a barrel, the barrel being for mounting batteries, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp,
- b) a lens,
- c) a cap for the barrel, and
- d) a trigger, the trigger including magnetic means being operable to activate the switch through a wall of the barrel, and the switch being contained inside the barrel.

A1

Claim 41 (original): A flashlight of claim 40 wherein the trigger is mounted in a housing, the housing being removably located in a receptacle, and the housing being capable of being selectively removed from the receptacle.

Claim 42 (currently amended): A flashlight comprising:

- a) a barrel, the barrel-a housing separable from the barrel and locatable in the barrel, the housing being for mounting batteries, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp, and the switch;
- b) a lens for the barrel; and
- c) a reflective surface, the reflective surface being substantially parabolic with multiple irregularities arranged on the reflective surface.

Claim 43 (original): A flashlight as claimed in claim 42 wherein the multiple irregularities are substantially hemispherical protrusions arranged around the reflective surface.

Claim 44 (original): A flashlight as claimed in claim 42 wherein the irregularities are arranged in rows from a base of the parabolic reflector towards the edge of the parabolic reflector, there being multiple protrusions in each row.

Claim 45 (original): A flashlight as claimed in claim 44 wherein successive rows are offset relative to irregularities in adjacent rows.

and
A1
Claim 46 (original): A flashlight as claimed in claim 42 wherein the irregularities substantially adjacent to the base of the parabolic reflector are relatively smaller than the size of the protrusions towards the edge of the parabolic reflector.

Claim 47 (NEW): A flashlight comprising:

A2

- a) a barrel, the barrel being for mounting batteries such that when the batteries are in the barrel, an array of several batteries are in side by side relationship radially around a central longitudinal axis extending through the barrel, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp;
- b) a lens, the lens including a reflective surface, the reflective surface being substantially parabolic with multiple protrusions arranged on the reflective surface, the multiple protrusions being substantially hemispherical protrusions arranged around the reflective surface, and the protrusions being arranged in rows from a base of the parabolic reflector towards the edge of the parabolic reflector, there being multiple protrusions in each row;
- c) a cap for the barrel; and
- d) a pistol grip handle extending transversely from the barrel.

Claim 48 (NEW): A flashlight as claimed in claim 47 wherein successive rows are offset relative to protrusions in adjacent rows.

Claim 49 (NEW): A flashlight as claimed in claim 47 wherein each row of protrusions is offset from an adjacent row, the offset being radially determined between about 1° and 10°.

Claim 50 (NEW): A flashlight as claimed in claim 47 wherein there are about 1,260 protrusions arranged in about 21 rows from the base of the parabolic reflector toward the edge.

Claim 51 (NEW): A flashlight comprising:

- a) a barrel, the barrel being for mounting batteries such that when the batteries are in the barrel, an array of several batteries are in side by side relationship radially around a central

longitudinal axis extending through the barrel, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp;

b) a lens, the lens including a reflective surface, the reflective surface being substantially parabolic, and wherein a texture is applied to the reflective surface of the parabolic lens, the texture acting to blend a column of light normally reflected by a lamp located at the vertex of the parabolic reflector and dispersed patterns of light obtained by reflections from protrusions on the reflective surface, the blending acting to reduce a visual irregularity caused by at least one of an unsymmetrical filament in a lamp, an imperfect filament location relative to a vertex of the parabolic reflector, or imperfections in a shape of the reflector;

1 mt

c) a cap for the barrel; and
d) a pistol grip handle extending transversely from the barrel.

A2

Claim 52 (NEW): A flashlight comprising:

a) a barrel, the barrel being for mounting batteries, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp,

b) a lens;
c) a cap for the barrel;
d) a pistol grip handle extending transversely from the barrel; and
e) wherein batteries are mountable in a housing, the housing being removable from the barrel when the cap is removed from the barrel including contacts external to the housing for mounting batteries on an outside wall of the housing.

Claim 53 (NEW): A flashlight comprising:

a) a barrel, the barrel being for mounting batteries, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp,

b) a lens;
c) a cap for the barrel;
d) a pistol grip handle extending transversely from the barrel; and

e) a closure to a housing for batteries, the closure to the housing including means for mounting the lamp.

Claim 54 (NEW): A flashlight as claimed in claim 53 wherein the closure is mounted to close the housing in a tongue and groove manner, the closure and opening being effected by relative rotation of the closure member on one end of the housing.

Claim 55 (NEW): A flashlight as claimed in the claim 52 wherein the housing includes the electrical components for the batteries, and whereby the operation of the flashlight by the switch is effected by an element mounted on the flashlight unassociated with the housing.

1 M.t
A2
Claim 56 (NEW): A flashlight comprising:

- a) a barrel, the barrel being for mounting batteries, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp,
- b) a lens;
- c) a cap for the barrel;
- d) a pistol grip handle extending transversely from the barrel; and
- e) wherein the handle and barrel are ergonomically structured to promote a balance in the flashlight thereby to substantially balance the flashlight with eight batteries mounted in the barrel to enable the flashlight to stand on a base of the handle without tipping forward or backward.

Claim 57 (NEW): A flashlight as claimed in claim 56 wherein the handle is formed of elements cut out from structure forming the handle so as to enhance lightness of the handle while at the same time retaining the structural strength of the handle.

Claim 58 (NEW): A flashlight as claimed in claim 57 wherein the handle includes two component materials, a relatively more rigid forward material to be gripped by fingers of a user and a relatively less flexible material for location about the base of a hand of a user when the hand of a user surrounds the handle.

Claim 59 (NEW): A flashlight comprising:

- a) a barrel, the barrel being for mounting batteries, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp;
- b) a lens for the barrel; and
- c) a reflective surface, the reflective surface being substantially parabolic with multiple irregularities arranged on the reflective surface wherein the irregularities are arranged in rows from a base of the parabolic reflector towards the edge of the parabolic reflector, there being multiple protrusions in each row, and wherein successive rows are offset relative to irregularities in adjacent rows.

1 encd
A2

Claim 60 (NEW): A flashlight as claimed in claim 59 wherein the multiple irregularities are substantially hemispherical protrusions arranged around the reflective surface.

Claim 61 (NEW): A flashlight comprising:

- a) a barrel, the barrel being for mounting batteries, a lamp, a switch, a circuit, the switch being for opening and closing the circuit, the circuit being between the batteries and the lamp;
- b) a lens for the barrel; and
- c) a reflective surface, the reflective surface being substantially parabolic with multiple irregularities arranged on the reflective surface wherein the irregularities substantially adjacent to the base of the parabolic reflector are relatively smaller than the size of the protrusions towards the edge of the parabolic reflector.